

Application No. 10/005,532
Response to Office Action

Customer No. 01933

Listing of Claims:

1. (Currently Amended) A photosensor device comprising:
a plurality of fiber bundles, each fiber bundle comprising a
light-applying fiber to apply an inspection light to a subject to
be inspected, and [(;)] a light-receiving fiber to receive a
5 reflected light from the subject to be inspected;
a at least one laser beam source to emit the inspection
light to the light-applying fiber of each of the fiber bundles;
a at least one photosensor to receive the reflected light
via the light-receiving fiber of each of the fiber bundles; and
10 a casing enclosing the light applying fiber, the
light receiving fiber, the laser beam source and the photosensor,
and
wherein the light applying fiber and the light receiving
fiber are bundled to form a fiber bundle, and an objective
15 optical system is provided at a front end of each of the fiber
bundle bundles,
wherein each of the fiber bundles is provided separately.

2. (Currently Amended) The photosensor device according to
Claim 1, wherein the photosensor device comprises fiber arrays
obtained by disposing plural channels of sensor units in the

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5 casing, and wherein each of the sensor units as one channel comprises ~~one said light-applying fiber~~, one said of the fiber bundle bundles, one said laser beam source connected to the each said light-applying fiber of the fiber bundle bundles, and one said photosensor connected to the each said light-receiving fiber of the fiber bundle bundles.

3. (Currently Amended) A disk inspection apparatus for irradiating an inspection light on a surface of a rotating disk and inspecting surface conditions of the disk based on a reflected light, said disk inspection apparatus comprising:

5 a turning table for rotating the disk;
a photosensor body disposed opposite to the surface of the disk; and
a transfer means for reciprocally transferring the photosensor body in a direction perpendicular to a rotating 10 direction of the disk along the surface of the disk;
wherein the photosensor body comprises a fiber array constructed by arranging a plurality of separate sensor units as multi-channels, and
wherein each of the sensor units comprises:
15 a light-applying fiber,

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a light-receiving fiber which is bundled with the
light-applying fiber to form a fiber bundle,

a laser beam source to emit the inspection light to the
light-applying fiber,

20 a photosensor to receive the reflected light via the
light-receiving fiber, and

an objective optical system provided at a front end of
the fiber bundle.

4. (Previously Presented) The disk inspection apparatus
according to Claim 3, wherein a plurality of the fiber arrays are
arranged in plural lines in a state such that phases of adjacent
fiber arrays are shifted.